In the Claims:

1-20. (Canceled)

21. (Currently Amended) A semiconductor structure comprising: a substrate:

two electrically conductive structures over the substrate, a subarea between the two electrically conductive structures being free of material;

a <u>single</u> layer of <u>homogenous</u> material containing silicon, oxygen and nitrogen overlying the two electrically conductive structures;

an intermediate layer comprising an electrically insulating material overlying the layer of material containing silicon, oxygen and nitrogen; and

a covering layer overlying the intermediate layer and the subarea between the two electrically conductive structures such that the subarea comprises a material-free area that is sealed from the environment.

- 22. (Currently Amended) The semiconductor structure as claimed in claim 21, wherein the <u>single</u> layer of <u>homogenous</u> material containing silicon, oxygen and nitrogen comprises $Si_{1.00}O_{1.90}H_{0.27}C_{0.045}N_{0.06}$.
- 23. (Previously Presented) The semiconductor structure as claimed in claim 21, wherein the two electrically conductive structures comprise copper structures.
- 24. (Previously Presented) The semiconductor structure as claimed in claim 21, wherein the material-free area comprises an airgap.

- 25. (Currently Amended) The semiconductor structure as claimed in claim 21, wherein the <u>single</u> layer of <u>homogenous</u> material containing silicon, oxygen and nitrogen has been formed by a plasma-enhanced chemical vapor deposition process with nitrogen material being supplied during the supply of silicon material and oxygen material by means of an organic silicon precursor material.
- 26. (Previously Presented) The semiconductor structure as claimed in claim 21, wherein the intermediate layer is formed from silane-based silicon oxide.
- 27. (Previously Presented) The semiconductor structure as claimed in claim 21, wherein the covering layer comprises silicon oxide.
- 28. (Previously Presented) The semiconductor structure as claimed in claim 27, wherein the covering layer is formed based on ozone-activated decomposed tetraethyl orthosilicate.
- 29. (Previously Presented) A method for producing a layer arrangement, the method comprising:

forming a single layer of homogenous material comprising silicon, oxygen, and nitrogen over a substrate that has a plurality of electrically conductive structures and/or over a part of a surface of the electrically conductive structures, the single layer of homogenous material being formed using a plasma-enhanced chemical vapor deposition process with nitrogen being supplied during the supply of silicon and oxygen by means of an organic silicon precursor material, the single layer of homogenous material being

formed in such a manner that an area free of material remains between the electrically conductive structures;

forming an intermediate layer comprising an electrically insulating material over the single layer of homogenous material; and

selectively forming a covering layer over the intermediate layer such that the area free of material between the electrically conductive structures is sealed from the environment and forms a cavity.

- 30. (Previously Presented) The method as claimed in claim 29, wherein the homogenous material comprises $Si_{1.00}O_{1.90}H_{0.27}C_{0.045}N_{0.06}$.
- 31. (Canceled)
- 32. (New) A semiconductor structure comprising:

two electrically conductive structures over a substrate, a subarea between the two electrically conductive structures being free of material;

a layer of material containing silicon, oxygen and nitrogen overlying the two electrically conductive structures, wherein the layer of material containing silicon, oxygen and nitrogen comprises ${\rm Si}_{1.00}{\rm O}_{1.90}{\rm H}_{0.27}{\rm C}_{0.045}{\rm N}_{0.06};$

an intermediate layer comprising an electrically insulating material overlying the layer of material containing silicon, oxygen and nitrogen; and

a covering layer overlying the intermediate layer and the subarea between the two electrically conductive structures such that the subarea comprises a material-free area that is sealed from the environment.

- 33. (New) The semiconductor structure as claimed in claim 32, wherein the two electrically conductive structures comprise copper structures.
- 34. (New) The semiconductor structure as claimed in claim 32, wherein the material-free area comprises an airgap.
- 35. (New) The semiconductor structure as claimed in claim 32, wherein the layer of material containing silicon, oxygen and nitrogen has been formed by a plasma-enhanced chemical vapor deposition process with nitrogen material being supplied during the supply of silicon material and oxygen material by means of an organic silicon precursor material.
- 36. (New) The semiconductor structure as claimed in claim 32, wherein the intermediate layer is formed from silane-based silicon oxide.
- 37. (New) The semiconductor structure as claimed in claim 32, wherein the covering layer comprises silicon oxide.
- 38. (New) The semiconductor structure as claimed in claim 37, wherein the covering layer is formed based on ozone-activated decomposed tetraethyl orthosilicate.